

(12) UK Patent Application (19) GB (11)

2 138 478 A

(43) Application published 24 Oct 1984

(21) Application No 8409838

(22) Date of filing 16 Apr 1984

(30) Priority data

(31) 8310269

(32) 15 Apr 1983

(33) GB

(51) INT CL³
E06B 7/00

(52) Domestic classification
E1J GR

(56) Documents cited
GB A 2119838 GB A 2019475

(58) Field of search
E1J

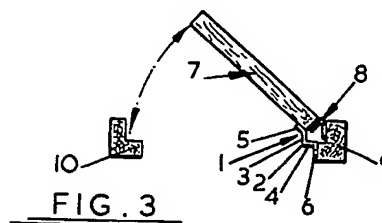
(71) Applicants
Thomas Maguire,
46 Abbotsford Drive, Kirkintilloch, Glasgow, Scotland
Ian Maguire,
46 Abbotsford Drive, Kirkintilloch, Glasgow, Scotland

(72) Inventors
Thomas Maguire
Ian Maguire

(74) Agent and/or Address for Service
Cruikshank & Fairweather, 19 Royal Exchange Square,
Glasgow G1 3AE

(54) Finger guard for a door

(57) A safety attachment for a door comprises a strip 1 of stiff but flexible material in the form of a web 2-4 having at its outer edges flanges 5,6, one of which 5 is attached to the door face and the other to the jamb 9. The attachment 1 assumes an extended form bridging the gap between the door edge and the jamb 9 when the door 7 is open and a contracted form with the web 2-4 in a substantially closed configuration extending outwardly from the gap in the closed position of the door 7 whereby insertion and trapping of members such as a child's fingers in the gap during door closing may be prevented.



GB 2 138 478 A

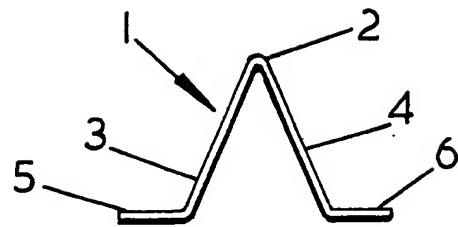


FIG. 1

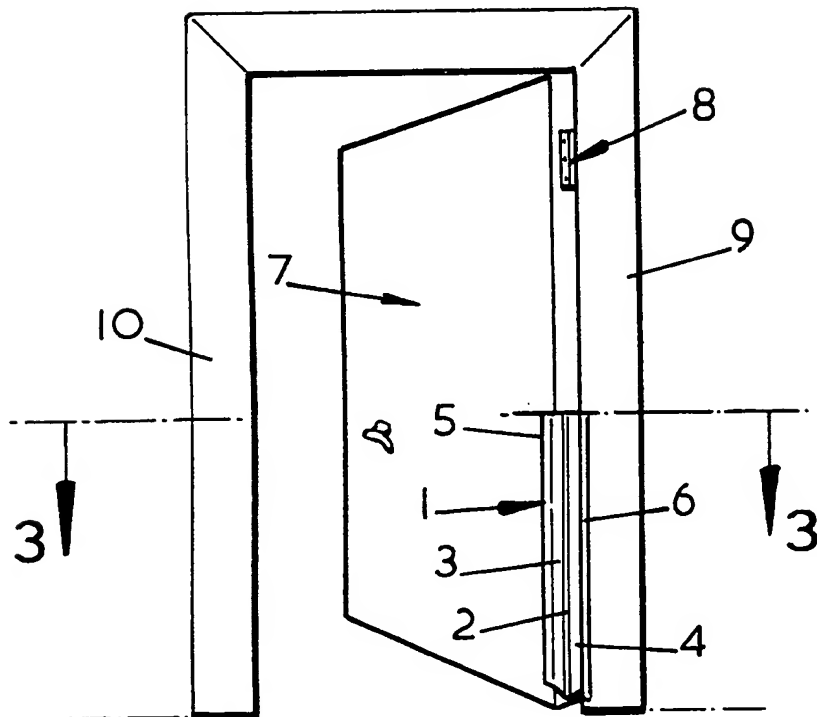


FIG. 2

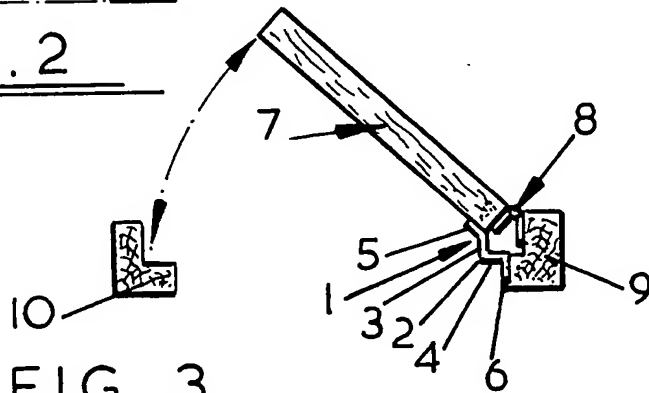


FIG. 3

SPECIFICATION

Safety attachment for a door

5 The subject of this invention is a safety attachment for fitting to a door and is intended to prevent the accidental insertion of fingers into the hinge portion of the door when the door is open with the consequent danger to the fingers becoming jammed. Children are particularly prone to this form of accident.

The invention also includes a door assembly incorporating the safety attachment.

An attachment according to the invention comprises a strip of stiff but flexible material folded to present two leaves connected along adjacent edges with the other edge of each leaf formed as a flange to be attachable respectively to the opening part of the door and the door jamb.

The strip may be formed of plastics material of a type which while being rigid also allows of some degree of flexing or may be formed of a thin strip of flexible metallic material.

The two leaves may be connected along their adjacent edges by a U-shaped portion or may be directly connected to one another i.e. by the strip being bent at a sharp angle along a longitudinal line to form two leaves. Where the two leaves are connected by a U-shaped portion the strip may be bent longitudinally about a small radius thereby forming two leaves.

The flanges may be formed with a series of holes for the reception of nails such as panel pins to facilitate attachment of the strip.

The invention also comprises a door assembly including a door hinged to a door case and an attachment consisting of a strip of stiff but flexible material formed as described, with one flange attached to the door proper and the other to the jamb carrying the door hinges so that the attachment bridges the gap between the door proper and the jamb, the location of the attachment being such that when the door is closed the two leaves of the attachment are close to one another and substantially parallel.

A practical embodiment of the invention is illustrated in the accompanying drawings in which Fig. 1 is a sectional view of the safety attachment, Fig. 2 shows the assembly of a portion of a door proper and the door case and Fig. 3 is a section through the line 3-3 in Fig. 2.

In the drawings 1 denotes a strip of stiff but flexible material folded along the line 2 to present two leaves 3 and 4 which are flanged respectively at 5 and 6. 7 denotes a door proper hinged at 8 to jambs 9 and 10. The strip 1 is shown connected in place between the door proper at the hinged edge and the adjacent door jamb 9. The strip is normally made of a length sufficient to prevent children of various heights from being able to insert their fingers into the gap between the edge of the door proper and the door jamb 9 when

60 the door is open.

In practice when the door is closed the two leaves 3 and 4 are substantially parallel to one another and when the door is opened the leaves swing apart about the bend line 2 so that they bridge the gap between the door proper and the door jamb.

CLAIMS

1. A door assembly including a door having one edge hingedly connected to a door case and an attachment comprising a strip of stiff but flexible material in the form of a web having at its outer edges flange means, with one said flange means attached to the door face adjacent said edge remote from said hinges and the other to the jamb carrying the door hinges at the jamb side remote from the hinges so that the attachment assumes an extended form bridging the gap between said door edge and said jamb when the door is open and a contracted form with the web in a substantially closed configuration extending outwardly from the gap between said door edge and said jamb in the closed position of the door.

2. A door assembly as claimed in claim 1 wherein the web is in the form of two generally planar leaves extending side-by-side longitudinally of the strip.

3. A door assembly as claimed in claim 2 wherein the leaves are interconnected in a generally V-shaped configuration.

4. A door assembly as claimed in claim 2 wherein the leaves are interconnected in a generally U-shaped configuration.

5. A door assembly as claimed in any one of claims 1 to 3 wherein the flange means extends outwardly of the web.

6. A door assembly as claimed in any one of claims 1 to 3 wherein the flange means extends inwardly of the web generally towards each other.

7. A door assembly as claimed in any one of claims 1 to 6 wherein the strip is of a stiff but flexible plastics material.

8. A door assembly as claimed in claim 7 wherein the strip is of polyvinylchloride.

9. A door assembly as claimed in any one of claims 1 to 8 wherein the strip extends substantially from the base of the door for at least half the height of the door.

10. A door assembly as claimed in claim 1 wherein said web is formed and arranged and has a width so that in its extended form it has a widthwise generally convex configuration extending away from said gap and resistant to movement inwardly of the gap by the application of pressure to said web.

11. An attachment for a door assembly according to claim 1 which attachment comprises a strip of stiff but flexible material folded to present two leaves connected along adjacent edges with the other edge of each leaf provided with a flange formed and arranged for attachment to a respective one of the opening part of the door and the door jamb.

12. A door assembly according to claim 1 substantially as described hereinbefore with particular refer-

The drawing(s) originally filed was (were) informal and the print here reproduced is taken from a later filed formal copy

This print takes account of replacement documents submitted after the date of filing to enable the application to comply with the formal requirements of the Patents Rules 1982.

ence to the accompanying drawing.

13. An attachment for a door assembly according to claim 11 substantially as described hereinbefore with particular reference to the accompanying
5 drawing.

Printed in the United Kingdom for Her Majesty's Stationery Office, 8818935,
10/84, 18998. Published at the Patent Office, 25 Southampton Buildings,
London WC2A 1AY, from which copies may be obtained.